

COC# ~~824~~
185

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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(541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: M107041

TURNAROUND REQUEST in Business Days*

Organic & Inorganic Analyses

10 7 5 4 3 2 1 <1

STD.

Petroleum Hydrocarbon Analyses

5 4 3 2 1 <1

STD.

Please Specify

OTHER

*Turnaround Requests less than standard may incur Rush Charges.

CLIENT: BRISTOL		INVOICE TO: BRISTOL										<div>TURNAROUND REQUEST in Business Days*</div> <div>Organic & Inorganic Analyses</div> <div>10 7 5 4 3 2 1 <1</div> <div>STD.</div> <div>Petroleum Hydrocarbon Analyses</div> <div>5 4 3 2 1 <1</div> <div>STD.</div> <div>Please Specify</div> <div>OTHER</div> <div>*Turnaround Requests less than standard may incur Rush Charges.</div>					
REPORT TO: ANNE KRANAWETTER		P.O. NUMBER: 21090															
ADDRESS: AMCHITKA ISLAND, ALASKA		REQUESTED ANALYSES															
PHONE: 907-770-0974 FAX: 770-0975																	
PROJECT NAME: AMCHITKA																	
PROJECT NUMBER: 21090																	
SAMPLED BY:																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	ACID												MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AMH401SL	7/20/01 1405	X												S	1	HAVE BATCH #4	
2. 01AMH402SL	7/20/01 1410	X												S	1		
3. 01AMH403SL	7/20/01 1415	X												S	1		
4. 01AMH404SL																	
5. 01AMH404SL	7/20/01 1420	X												S	1		
6. 01AMH405SL	7/20/01 1425	X												S	1		
7. 01AMH406SL	7/20/01 1430	X												S	1		
8. 01AMH407SL	7/20/01 1435	X												S	1		
9. 01AMH408SL	7/20/01 1440	X												S	1		
10. 01AMH409SL	7/20/01 1445	X												S	1		
11. 01AMH410SL	7/20/01 1450	X												S	1		
12. 01AMH411SL	7/20/01 1455	X															
13. C-5 C1AMC5262	7/20/01 1510																
14.																	
15.																	
RELINQUISHED BY: Kyle Peterson		FIRM: BRISTOL		DATE: 07/20/01		TIME: 1519		RECEIVED BY: Stephen Weil		FIRM: NCA		DATE: 07/20		TIME: 1519			
RELINQUISHED BY:		FIRM:		DATE:		TIME:		RECEIVED BY:		FIRM:		DATE:		TIME:			
PRINT NAME:		FIRM:		DATE:		TIME:		PRINT NAME:		FIRM:		DATE:		TIME:			
ADDITIONAL REMARKS:																	
COC REV 3/99 PRETREATMENT SAMPLES FOR HAVE BATCH #4																	
														TEMP:	1		
														PAGE	1		



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7 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/20/01 15:19. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M107041



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/21/01 10:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMHV401SL	M107041-01	Soil	07/20/01 14:05	07/20/01 15:19
01AMHV402SL	M107041-02	Soil	07/20/01 14:10	07/20/01 15:19
01AMHV403SL	M107041-03	Soil	07/20/01 14:15	07/20/01 15:19
01AMHV404SL	M107041-04	Soil	07/20/01 14:20	07/20/01 15:19
01AMHV405SL	M107041-05	Soil	07/20/01 14:25	07/20/01 15:19
01AMHV406SL	M107041-06	Soil	07/20/01 14:30	07/20/01 15:19
01AMHV407SL	M107041-07	Soil	07/20/01 14:35	07/20/01 15:19
01AMHV408SL	M107041-08	Soil	07/20/01 14:40	07/20/01 15:19
01AMHV409SL	M107041-09	Soil	07/20/01 14:45	07/20/01 15:19
01AMHV410SL	M107041-10	Soil	07/20/01 14:50	07/20/01 15:19
01AMHV411SL	M107041-11	Soil	07/20/01 14:55	07/20/01 15:19

COC #185

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/21/01 10:05

Hydrocarbon Identification per NW-TPH Methodology North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV401SL (M107041-01) Soil						Sampled: 07/20/01 Received: 07/20/01			
Gasoline Range Hydrocarbons	394	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	D-10
Diesel Range Hydrocarbons	7300	500	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	1170	1000	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	153 %	50-150							S-02
01AMHV402SL (M107041-02) Soil						Sampled: 07/20/01 Received: 07/20/01			
Gasoline Range Hydrocarbons	408	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	D-10
Diesel Range Hydrocarbons	7490	500	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	1170	1000	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	67.1 %	50-150							
01AMHV403SL (M107041-03) Soil						Sampled: 07/20/01 Received: 07/20/01			
Gasoline Range Hydrocarbons	ND	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	
Diesel Range Hydrocarbons	1690	500	"	"	"	"	"	"	D-16
Heavy Oil Range Hydrocarbons	ND	1000	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	98.1 %	50-150							
01AMHV404SL (M107041-04) Soil						Sampled: 07/20/01 Received: 07/20/01			
Gasoline Range Hydrocarbons	210	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	D-10
Diesel Range Hydrocarbons	4090	500	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	ND	1000	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	106 %	50-150							
01AMHV405SL (M107041-05) Soil						Sampled: 07/20/01 Received: 07/20/01			
Gasoline Range Hydrocarbons	ND	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	
Diesel Range Hydrocarbons	1740	500	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	ND	1000	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	86.8 %	50-150							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Environmental Laboratory Network



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/21/01 10:05

Hydrocarbon Identification per NW-TPH Methodology North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV406SL (M107041-06) Soil					Sampled: 07/20/01 Received: 07/20/01				
Gasoline Range Hydrocarbons	ND	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	
Diesel Range Hydrocarbons	864	500	"	"	"	"	"	"	D-16
Heavy Oil Range Hydrocarbons	ND	1000	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	<i>114 %</i>	<i>50-150</i>							
01AMHV407SL (M107041-07) Soil					Sampled: 07/20/01 Received: 07/20/01				
Gasoline Range Hydrocarbons	ND	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	
Diesel Range Hydrocarbons	1350	500	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	ND	1000	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	<i>118 %</i>	<i>50-150</i>							
01AMHV408SL (M107041-08) Soil					Sampled: 07/20/01 Received: 07/20/01				
Gasoline Range Hydrocarbons	ND	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	
Diesel Range Hydrocarbons	1300	500	"	"	"	"	"	"	D-16
Heavy Oil Range Hydrocarbons	ND	1000	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	<i>106 %</i>	<i>50-150</i>							
01AMHV409SL (M107041-09) Soil					Sampled: 07/20/01 Received: 07/20/01				
Gasoline Range Hydrocarbons	ND	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	
Diesel Range Hydrocarbons	1340	500	"	"	"	"	"	"	D-16
Heavy Oil Range Hydrocarbons	ND	1000	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	<i>95.8 %</i>	<i>50-150</i>							
01AMHV410SL (M107041-10) Soil					Sampled: 07/20/01 Received: 07/20/01				
Gasoline Range Hydrocarbons	ND	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	
Diesel Range Hydrocarbons	2300	500	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	ND	1000	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	<i>103 %</i>	<i>50-150</i>							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Environmental Laboratory Network

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/21/01 10:05

Hydrocarbon Identification per NW-TPH Methodology
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV411SL (M107041-11) Soil					Sampled: 07/20/01 Received: 07/20/01				
Gasoline Range Hydrocarbons	278	200	mg/kg	1	NWTPH HCID	07/20/01	07/20/01	0107078	D-10
Diesel Range Hydrocarbons	4210	500	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	ND	1000	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	97.3 %	50-150							

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/21/01 10:05

Hydrocarbon Identification per NW-TPH Methodology - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107078 - TPH-HCID (WA)

Blank (0107078-BLK1)

Prepared & Analyzed: 07/20/01

Gasoline Range Hydrocarbons	ND	20.0	mg/kg						
Diesel Range Hydrocarbons	ND	50.0	"						
Heavy Oil Range Hydrocarbons	ND	100	"						
<i>Surr: 1-Chlorooctadecane</i>	<i>10.0</i>		<i>"</i>	<i>9.46</i>		<i>106</i>	<i>50-150</i>		

North Creek Analytical - Mobile Lab

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/21/01 10:05

Notes and Definitions

D-10 Detected hydrocarbons in the gasoline range appear to be due to overlap of diesel range hydrocarbons.

D-16 Detected hydrocarbons in the diesel do not have a distinct diesel pattern and may be due to heavily weathered diesel.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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North Creek Analytical, Inc.
Environmental Laboratory Network

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107041 FINAL 07 21 01 1005.mdb Default Report (not modified)
M107041-01	NW-HCID mod	1-Chlorooctadecane	S-02
M107041-01	NW-HCID mod	Gasoline Range Hydrocarbons	D-10
M107041-01	NW-HCID mod	1-Chlorooctadecane	Exceeds upper control limit
M107041-02	NW-HCID mod	Gasoline Range Hydrocarbons	D-10
M107041-03	NW-HCID mod	Diesel Range Hydrocarbons	D-16
M107041-04	NW-HCID mod	Gasoline Range Hydrocarbons	D-10
M107041-06	NW-HCID mod	Diesel Range Hydrocarbons	D-16
M107041-08	NW-HCID mod	Diesel Range Hydrocarbons	D-16
M107041-09	NW-HCID mod	Diesel Range Hydrocarbons	D-16
M107041-11	NW-HCID mod	Gasoline Range Hydrocarbons	D-10